

Sequence length 4052

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                                     M   R   M   L
TGGTCTCGAAGAAGCCCGTGCCTGTTTAAAACTGATCCTAACTAAAAACAGACTTGAGTGGAT  ATG  AGA  ATG  TTG      4
                                     12

V   S   G   R   R   V   K   K   W   Q   L   I   I   Q   L   F   A   T   C   F      24
GTT AGT GGC AGA AGA GTC AAA AAA TGG CAG TTA ATT ATT CAG TTA TTT GCT ACT TGT TTT      72

L   A   S   L   M   F   F   W   E   P   I   D   N   H   I   V   S   H   M   K      44
TTA GCG AGC CTC ATG TTT TTT TGG GAA CCA ATC GAT AAT CAC ATT GTG AGC CAT ATG AAG      132

S   Y   S   Y   R   Y   L   I   N   S   Y   D   F   V   N   D   T   L   S   L      64
TCA TAT TCT TAC AGA TAC CTC ATA AAT AGC TAT GAC TTT GTG AAT GAT ACC CTG TCT CTT      192

K   H   T   S   A   G   P   R   Y   Q   Y   L   I   N   H   K   E   K   C   Q      84
AAG CAC ACC TCA GCG GGG CCT CGC TAC CAA TAC TTG ATT AAC CAC AAG GAA AAG TGT CAA      252

A   Q   D   V   L   L   L   L   F   V   K   T   A   P   E   N   Y   D   R   R      104
GCT CAA GAC GTC CTC CTT TTA CTG TTT GTA AAA ACT GCT CCT GAA AAC TAT GAT CGA CGT      312

S   G   I   R   R   T   W   G   N   E   N   Y   V   R   S   Q   L   N   A   N      124
TCC GGA ATT AGA AGG ACG TGG GGC AAT GAA AAT TAT GTT CGG TCT CAG CTG AAT GCC AAC      372

I   K   T   L   F   A   L   G   T   P   N   P   L   E   G   E   E   L   Q   R      144
ATC AAA ACT CTG TTT GCC TTA GGA ACT CCT AAT CCA CTG GAG GGA GAA GAA CTA CAA AGA      432

K   L   A   W   E   D   Q   R   Y   N   D   I   I   Q   Q   D   F   V   D   S      164
AAA CTG GCT TGG GAA GAT CAA AGG TAC AAT GAT ATA ATT CAG CAA GAC TTT GTT GAT TCT      492

F   Y   N   L   T   L   K   L   L   M   Q   F   S   W   A   N   T   Y   C   P      184
TTC TAC AAT CTT ACT CTG AAA TTA CTT ATG CAG TTC AGT TGG GCA AAT ACC TAT TGT CCA      552

H   A   K   F   L   M   T   A   D   D   D   I   F   I   H   M   P   N   L   I      204
CAT GCC AAA TTT CTT ATG ACT GCT GAT GAT GAC ATA TTT ATT CAC ATG CCA AAT CTG ATT      612

E   Y   L   Q   S   L   E   Q   I   G   V   Q   D   F   W   I   G   R   V   H      224
GAG TAC CTT CAA AGT TTA GAA CAA ATT GGT GTT CAA GAC TTT TGG ATT GGT CGT GTT CAT      672

R   G   A   P   P   I   R   D   K   S   S   K   Y   Y   V   S   Y   E   M   Y      244
CGT GGT GCC CCT CCC ATT AGA GAT AAA AGC AGC AAA TAC TAC GTG TCC TAT GAA ATG TAC      732

Q   W   P   A   Y   P   D   Y   T   A   G   A   A   Y   V   I   S   G   D   V      264
CAG TGG CCA GCT TAC CCT GAC TAC ACA GCC GGA GCT GCC TAT GTA ATC TCC GGT GAT GTA      792

A   A   K   V   Y   E   A   S   Q   T   L   N   S   S   L   Y   I   D   D   V      284
GCT GCC AAA GTC TAT GAG GCA TCA CAG ACA CTA AAT TCA AGT CTT TAC ATA GAC GAT GTG      852
```

Fig. 1A

F	M	G	L	C	A	N	K	I	G	I	V	P	Q	D	H	V	F	F	S	304
TTC	ATG	GGC	CTC	TGT	GCC	AAT	AAA	ATA	GGG	ATA	GTA	CCG	CAG	GAC	CAT	GTG	TTT	TTT	TCT	912
G	E	G	K	T	P	Y	H	P	C	I	Y	E	K	M	M	T	S	H	G	324
GGA	GAG	GGT	AAA	ACT	CCT	TAT	CAT	CCC	TGC	ATC	TAT	GAA	AAA	ATG	ATG	ACA	TCT	CAT	GGA	972
H	L	E	D	L	Q	D	L	W	K	N	A	T	D	P	K	V	K	T	I	344
CAC	TTA	GAA	GAT	CTC	CAG	GAC	CTT	TGG	AAG	AAT	GCT	ACA	GAT	CCT	AAA	GTA	AAA	ACC	ATT	1032
S	K	G	F	F	G	Q	I	Y	C	R	L	M	K	I	I	L	L	C	K	364
TCC	AAA	GGT	TTT	TTT	GGT	CAA	ATA	TAC	TGC	AGA	TTA	ATG	AAG	ATA	ATT	CTC	CTT	TGT	AAA	1092
I	S	Y	V	D	T	Y	P	C	R	A	A	F	I	*						379
ATT	AGC	TAT	GTG	GAC	ACA	TAC	CCT	TGT	AGG	GCT	GCG	TTT	ATC	TAA						1137

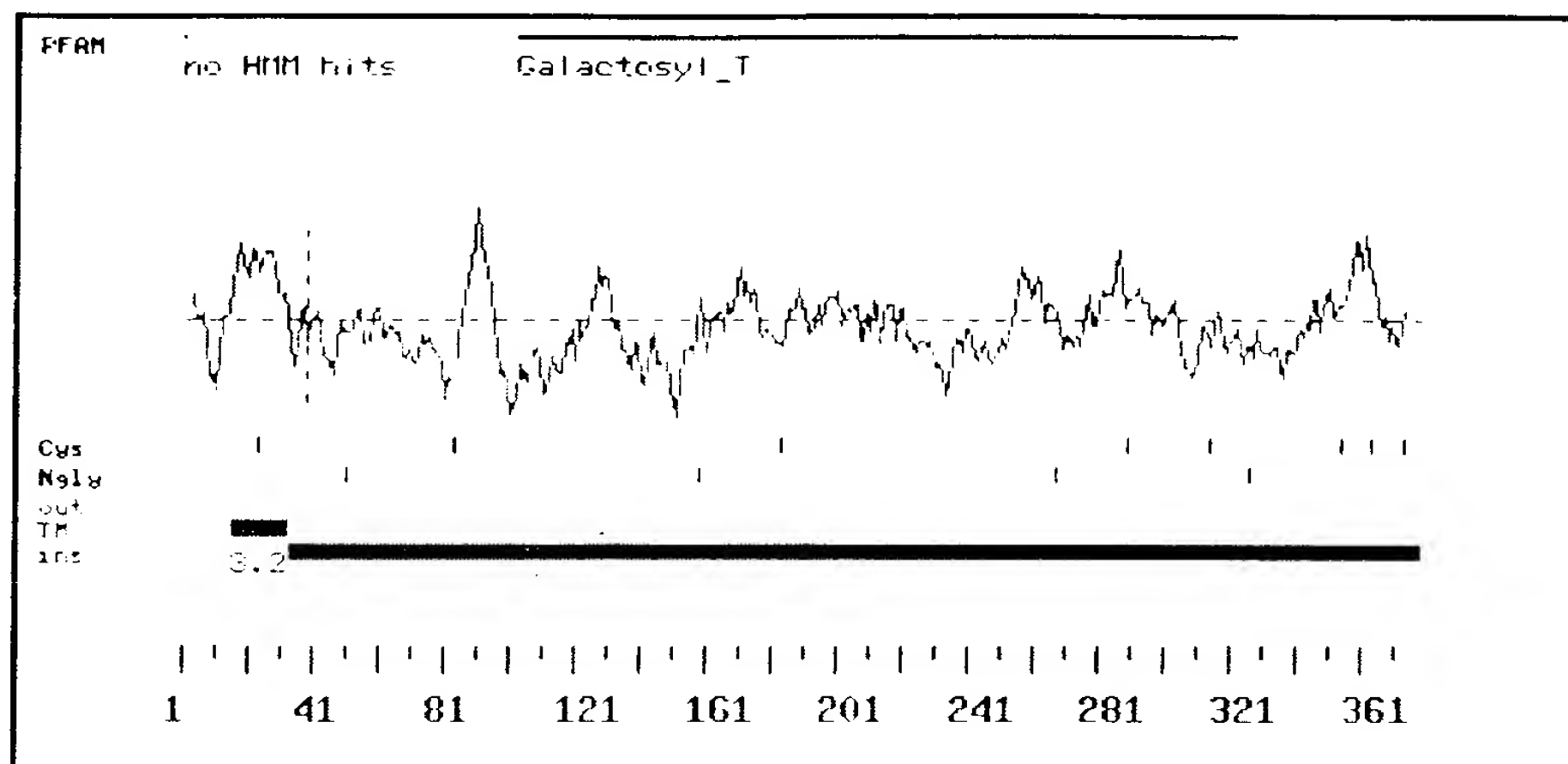
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 CAGCACTTTGTTCCAAGTTCAGAGTTTTAAATTGAGAGCATTAAACATCAAAGTTATAATATCTAAAACAATTTATTTT  
 TCATCAATAACTGTCAGAGGTGATCTTTATTTTCTAAATATTTCAAACCTTGAAAACAGAGTAAAAAAGTGATAGAAAAG  
 TTGCCAGTTTGGGGTTAAAGCATTTTTTAAAGCTGCATGTTCTTGTAAATCAAAGAGATGTGTCTGAGATCTAATAGAGT  
 AAGTTACATTTATTTTACAAAGCAGGATAAAAATGTGGCTATAATACACACTACCTCCCTTCACTACAGAAAGAACTAG  
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 ATTTTAATTTTTTCTATTTTGAAATTTGAGGCTTGTTTACATTGCTTAGATAATTTAGAATTTTTAACTAATGTCAA

Fig. 1B

ACTACAGTGTCAAACATTCTAGGTTGTAGTTACTTTCAGAGTAGATACAGGGTTTTAGATCATTACAGTTTAAGTTTTC  
TGACCAATTAAAAAACATAGAGAACAAAAGCATATTTGACCAAGCAACAAGCTTATAATTAATTTTTATTAGTTGATT  
GATTAATGATGTATTGCCTTTTGCCCATATATACCCTGTGTATCTATACTTGGAAGTGTTTAAGGTTGCCATTGGTTGA  
AACATAAGTGTCTCTGGCCATCAAAGTGATCTTGTTTACAGCAGTGCTTTTGTGAAACAATTATTTATTTGCTGAAAG  
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AAATAAAAGGGTTCCAACCTTTTAAAAAAGAAGGAAAAAACTTTTTGGTGCTCCAGTGTAGGGCTATCTTTTTAAAAAA  
TGTCACAAAGGGGAAAATAAACTATCAGCTTGGATGGTCACTTGAATAGAAGATGGTTATACACAGTGTTATTGTTAAA  
ATTTTTTTTACCTTTTGGTTGGTTTGCATCTTTTTTCCATATTGTTAATTTTATACCAAATGTTAAATATTTGTATTAC  
TTGAATTTTGCTCTTGTATGGCAAATAATTAGTGAGTTTAAAAAAAATCTATAGTTTCCAATAAACAACTGAAAAATT  
AAAAAAA

Fig. 1C

## Analysis of 8797 (378 aa)



>8797

MRMLVSGRRVKKWQLIIQLFATCFLASLMFFWEPIDNHIVSHMKSSYRYLINSYDFVND  
 TSLKHTSAGPRYQYLINHKEKCQAQDVLLLLFVKTAPENYDRRSGIRRTWGNENYVRSQ  
 LNANIKTLFALGTPNPLEGEELQRKLAWEDQRYNDIIQQDFVDSFYNLTKLLMQFSWAN  
 TYCPHAKFLMTADDDIFIHMPNLIEYLSLEQIGVQDFWIGRVHRGAPPIRDKSSKYYVS  
 YEMYQWPAYPDYTAGAAYVISGDVAAKVYEASQTLNSSLYIDDVFMGLCANKIGIVPQDH  
 VFFSGEGKTPYHPCIYEKMMTSHGHLEDLQDLWKNATDPKVKTISKGFFGQIYCRLMKII  
 LLCKISYVDTYPCRAAFI

Fig. 2

# Protein Family / Domain Matches, HMMer version 2

Searching for complete domains in PFAM

hmmpfam - search a single seq against HMM database

HMMER 2.1.1 (Dec 1998)

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HMMER is freely distributed under the GNU General Public License (GPL).

HMM file: /prod/ddm/seqanal/PFAM/pfam5.4/Pfam

Sequence file: /prod/ddm/wspace/orfanal/oa-script.19955.seq

Query: 8797

Scores for sequence family classification (score includes all domains):

Model	Description	Score	E-value	N
Galactosyl_T	Galactosyltransferase	173.8	2.8e-48	1

Parsed for domains:

Model	Domain	seq-f	seq-t	hmm-f	hmm-t	score	E-value
Galactosyl_T	1/1	102	321	1	249	173.8	2.8e-48

Alignments of top-scoring domains:

**Galactosyl\_T:** domain 1 of 1, from 102 to 321: score 173.8, E = 2.8e-48

```
*->arRnaiRkTWmnqnnsegvadgrikalFlvGl.sakgdqklkklvme
+rR iR+TW+n+n++++ ++ ik+lF +G++++++l++ + +
8797 102 DRRSGIRRTWGNENYVRSQNLNANIKTLFALGTpNPLEGEELQRKLAW 148

EakrtlyGDiivvDleDsYenLtlKTLtillygvskcpsakligKiDdDv
E++ y Dii++D+ Ds++nLtlK l+ ++++++cp+ak+ + DdD+
8797 149 EDQ--RYNDIIQQDFVDSFYNLTLKLLMQFSWANTYCPHAKFLMTADDDI 196

fvnpdkLlslLereniridpsessfyGyiikegepvrrkkskrdWYvppt
f+ +++L+++L+ i +++++ G++++ +p+r k sk Yv+++
8797 197 FIHMPNLIEYLQSL-EQIGVQDFWI-GRVHRGAPPIRDKSSK--YYVSYE 242

eYpcsrNgnkYPPYvsGpfYllsrdAAplIlkaskhrLr.flkiEDVliT
Y + YP Y +G Y++s+d+A ++++as + ++ l i+DV++
8797 243 MYQWPA----YPDYTAGAAYVISGDVAAKVYEASQTL-NsSLYIDDVFM- 286

GilaedlgIsrinlprlsistnlfrfhhsqkdndgcdvfawhtahkndpe
G +a+++gI +++ +f++ +++ h++ +e
8797 287 GLCANKIGIVPQDH-----VFFSGEGKTPY-----HPCIYE 317

ylif<-*
++ +
8797 318 KMMT 321
```

Fig. 3

## Transmembrane Segments Predicted by MEMSAT

Start	End	Orient	Score
15	32	out-->ins	3.2

>8797

MRMLVSGRRVKKWQLIIQLFATCFLASLMFFWEPIDNHIVSHMKSYSYRYLINSYDFVND  
 TSLKHTSAGPRYQYLINHKEKCQAQDVLLLLFVKTAPENYDRRSGIRRTWGNENYVRSQ  
 LNANIKTLFALGTPNPLEGEELQRKLAWEDQRYNDIIQQDFVDSFYNLTKLLMQFSWAN  
 TYCPHAKFLMTADDDIFIHMPNLI EYLSLEQIGVQDFWIGRVHRGAPPIRDKSSKYYVS  
 YEMYQWPAYPDYTAGAAYVISGDVAAKVYEASQTLNSSLYIDDVFMGLCANKIGIVPQDH  
 VFFSGEGKTPYHPCIYEKMMTSHGHLEDLQDLWKNATDPKVKTISKGFFGQIYCRLMKII  
 LLCKISYVDTYPCRAAFI

Fig. 4

Fig. 5

Phase 1.3.3 Expression of 8797 w/ß2

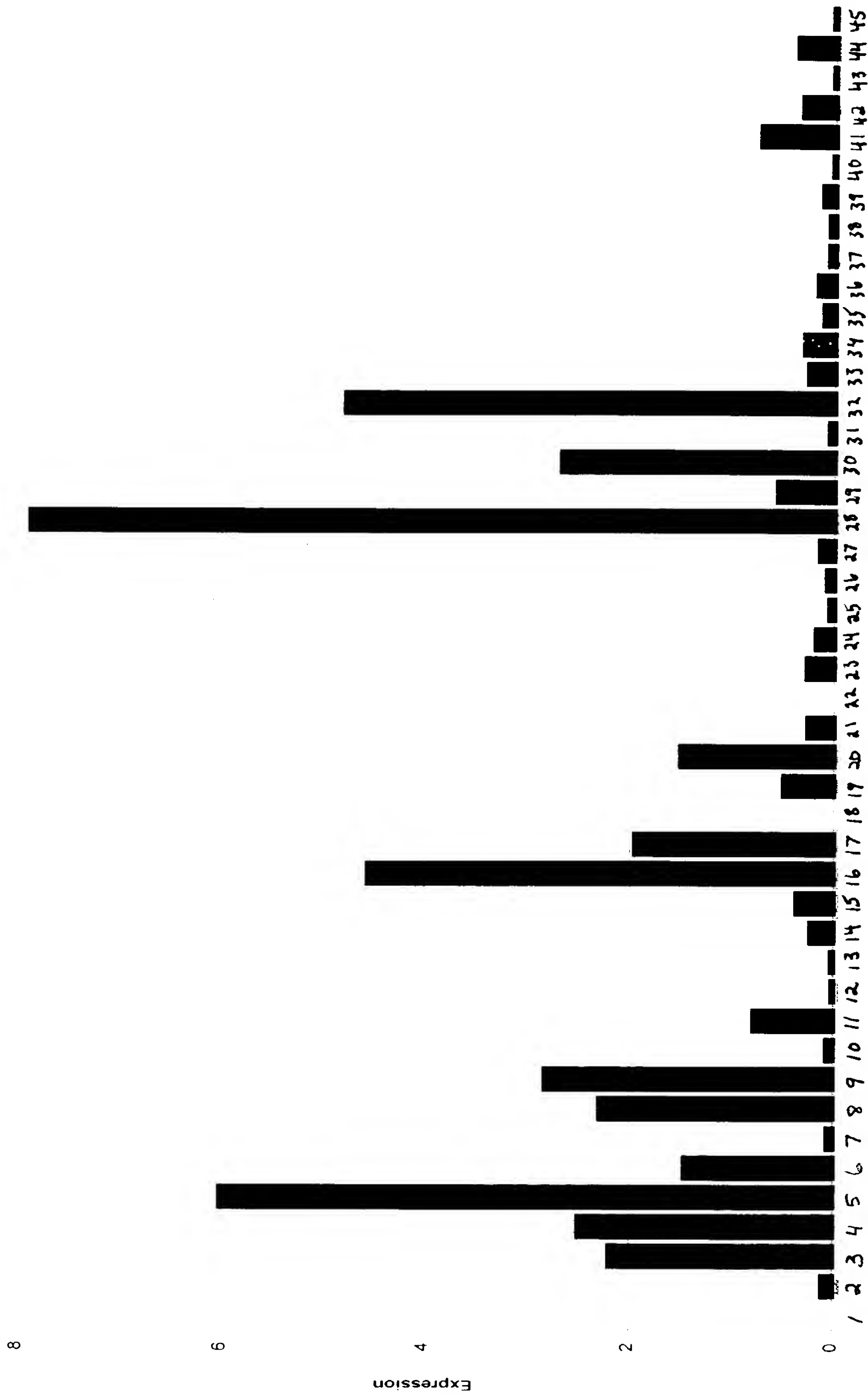


Fig. 6

8797 Expression in Oncology Phase II Plate

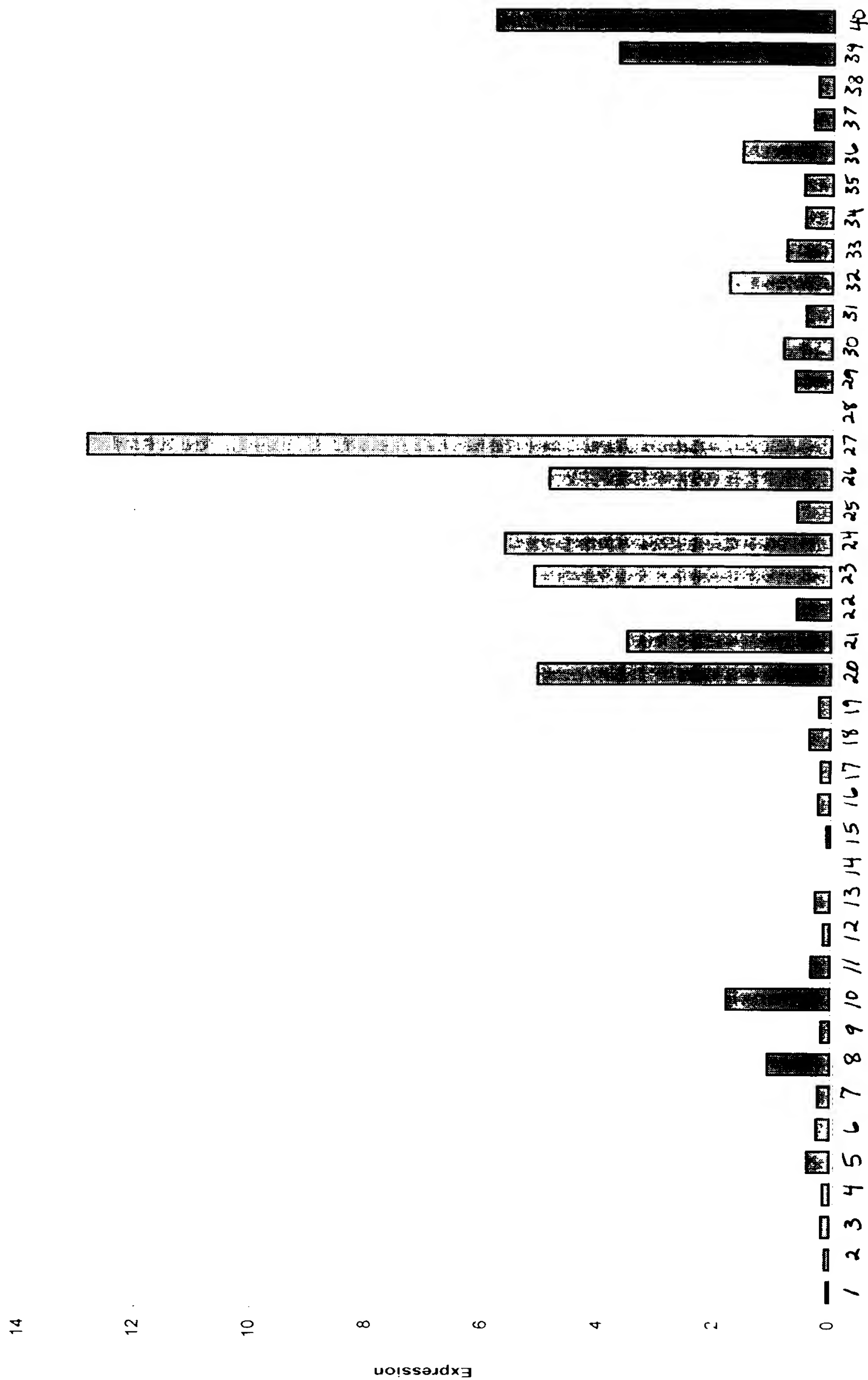




Fig. 7

8797 Expression in Lung Model Panel

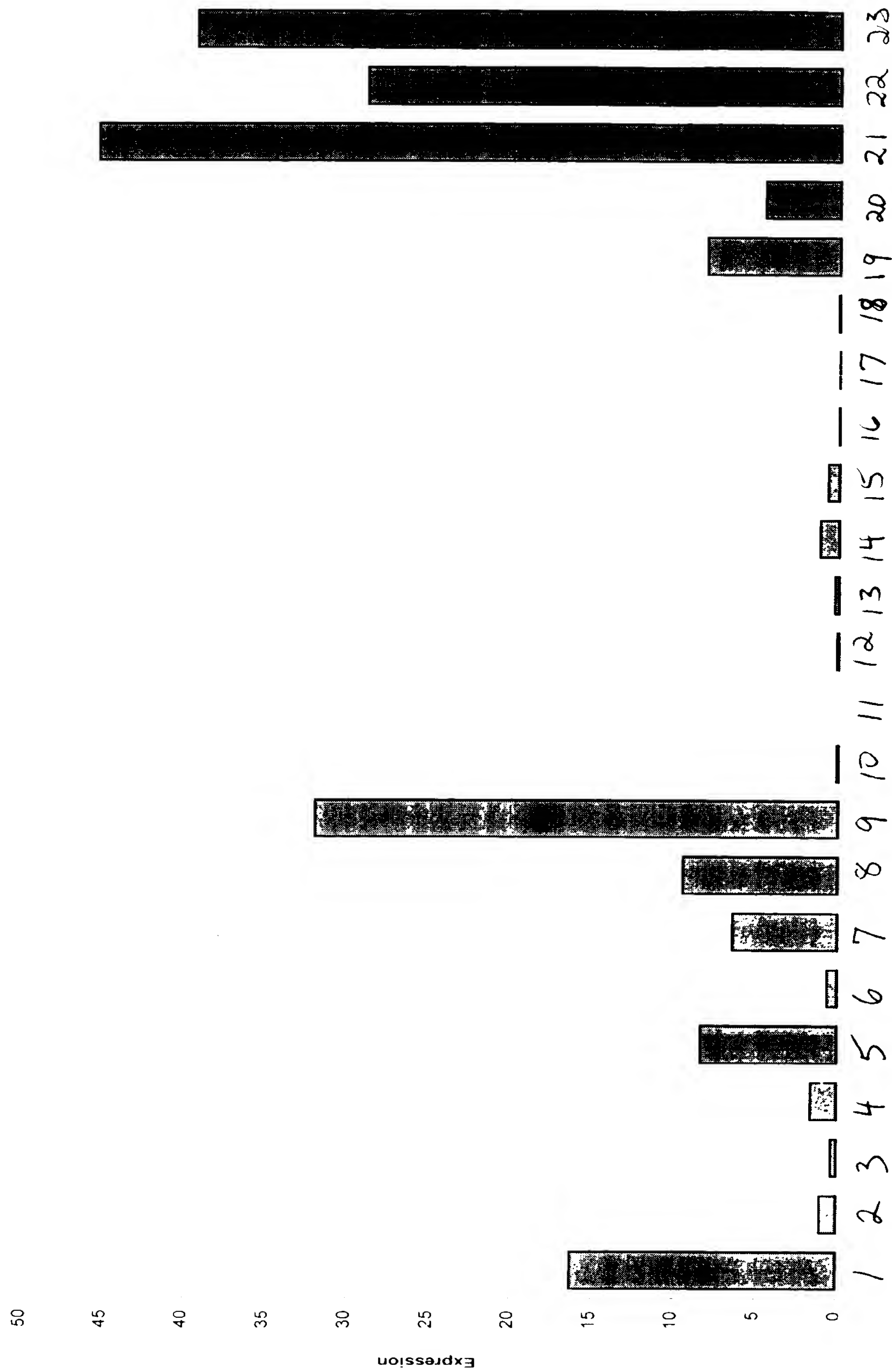


Fig. 8

8797 Expression in the Breast Models Panel

